

RECIRCULATED DRAFT

ENVIRONMENTAL IMPACT REPORT FOR THE DRAFT JACKSON DEMONSTRATION STATE FOREST MANAGEMENT PLAN ALTERNATIVE G

SCH# 2004022025

**Lead Agency:
The California State Board of Forestry
& Fire Protection**

**Prepared for:
The California State Board of Forestry
& Fire Protection**

**Prepared Under Contract By:
The California Department of Forestry
& Fire Protection**

May 30, 2007

This Page Intentionally Blank

RECIRCULATED DRAFT
ENVIRONMENTAL IMPACT REPORT FOR THE
DRAFT JACKSON DEMONSTRATION STATE
FOREST MANAGEMENT PLAN
ALTERNATIVE G

SCH# 2004022025

Lead Agency:
**The California State Board of Forestry
& Fire Protection**

Prepared for:
**The California State Board of Forestry
& Fire Protection**

Prepared Under Contract By:
**The California Department of Forestry
& Fire Protection**

May 30, 2007

This Page Intentionally Blank

Table of Contents

List of Tables	iii
List of Map Figures	iii
List of Acronyms and Abbreviations Used	iv
I. Executive Summary	I-1
1. Introduction	I-1
2. Description of Alternative G.....	I-2
3. Alternatives Considered	I-6
4. Conclusion	I-9
II. Alternatives	II-1
1. Introduction	II-1
2. General Overview Description of Alternatives	II-1
3. Environmentally Superior Alternative and Preferred Alternative.....	II-17
4. Relative Comparison of Impacts by Resource	II-17
5. Comparison of Management Approach and Elements Among Proposed Alternative	II-18
III. Resource Specific Analysis	III-1
1. Introduction	III-1
2. Aesthetic Resources	III-1
3. Agriculture Resources	III-13
4. Mineral Resources	III-16
5. Air Quality.....	III-18
6. Biological Resources.....	III-22
6.1 Changes in Management under Alternative G Affecting Biological Resources	III-22
6.2 Aquatic Resources.....	III-25
6.3 Botanical Resources	III-38
6.4 Timber Resources.....	III-46
6.5 Forest Protection.....	III-56
6.6 Wetlands	III-56
6.7 Wildlife and Wildlife Habitat.....	III-58
7. Geology and Soils.....	III-97
8. Hazards and Hazardous Materials.....	III-105
9. Heritage Resources	III-111
10. Hydrology and Water Quality	III-125
11. Land Use and Planning.....	III-132
12. Noise.....	III-135
13. Public Services, population and Housing, Utilities, and Services Systems	III-142
14. Recreation	III-142
15. Transportation and Traffic.....	III-153
16. Climate Change and Carbon Sequestration	III-157

**RECIRCUALTED DRAFT ENVIRONMENTAL IMPACT REPORT
FOR PROPOSED JDSF MANAGEMENT PLAN ALTERNATIVE G**

IV. Cumulative Effects	IV-1
1. Introduction	IV-1
2. Known Changes in the Cumulative Effects Baseline	IV-1
3. Watershed Cumulative Effects.....	IV-9
4. Hazardous Materials Cumulative Effects	IV-11
5. Soil Productivity Cumulative Effects.....	IV-12
6. Biological Resource Cumulative Effects	IV-13
7. Recreation Cumulative Effects.....	IV-17
8. Aesthetic Effects	IV-19
9. Noise Effects.....	IV-24
10. Traffic Effects	IV-27
11. Air Quality	IV-28
12. Land Use	IV-29
13. Heritage Resources	IV-29
14. Cumulative Impacts Summary and Comparison Table	IV-30

Appendix

1. Detailed Goals and Objectives for Alternative G

**RECIRCULATED DRAFT ENVIRONMENTAL IMPACT REPORT
FOR PROPOSED JDSF MANAGEMENT PLAN ALTERNATIVE G**

List of Tables

- I.1. Potentially Significant Impacts, Proposed Mitigation and Project Alternatives
- I.2. Summary of Potential Adverse and Beneficial Potential Cumulative Effects for the Proposed Project
- II.1. Alternative G Desired Future Forest Structure Conditions
- II.2. Planned Distribution of Silvicultural Methods
- II.3. Short-Term Harvest Schedule for Alternative G
- II.4. Comparison of Management Approach and Elements Among Proposed Alternatives
- III.1. Comparison of Aesthetics Impacts by Alternatives
- III.2. Comparison of Agriculture Impacts by Alternatives
- III.3. Comparison of Mineral Resources Impacts by Alternatives
- III.4. Comparison of Air Quality Impacts by Alternatives
- III.5. Comparison of Aquatic Resource Impacts by Alternatives
- III.6. Comparison of Botany-Related Impacts by Alternatives
- III.7. Summary of Estimated Annual Economic Effects for EIR Alternative Harvest Levels.
- III.8. Comparison of Timber Resource Impacts by Alternatives
- III.9. Comparison of Wetland Impacts by Alternatives
- III.10. Comparison of Wildlife-Related Impacts by Alternatives
- III.11. Comparison of Geology and Soils Related Impacts by Alternatives
- III.12. Comparison of Hazards and Hazardous Materials Related Impacts by Alternatives
- III.13. Alternative Comparison of Heritage Resources by Alternatives
- III.14. Comparison of Hydrology and Water Quality Related Impacts by Alternatives
- III.15. Comparison of Land Use Impacts by Alternatives
- III.16. Comparison of Potential Noise Related Impacts by Alternatives
- III.17. Comparison of recreation Related Impacts by Alternatives
- III.18. Comparison of Traffic and Transportation related impacts by Alternatives
- III.19. Comparison of EIR Alternatives for Total Net Carbon Sequestered at End of 100-Year Planning interval
- IV.1. Timber Harvesting Plans Submitted within the Watershed Cumulative Effects Assessment Area during the Period January 2005 through mid May 2007
- IV.2. Summary of Potential Adverse and Beneficial Potential Cumulative Effects

List of Map Figures

Map Figure 1.

Map Figure 2.

**RECIRCULATED DRAFT ENVIRONMENTAL IMPACT REPORT
FOR PROPOSED JDSF MANAGEMENT PLAN ALTERNATIVE G**

List of Acronyms and Abbreviations Used

AMZ	Aquatic Management Zone
APZ	Aquatic Protection Zone
Board, BOF	California Board of Forestry and Fire Protection
CAC	Citizen Advisory Committee
CARIDAP	California Archaeological Resource Identification and Data Acquisition Program
CCR	California Code of Regulations
CDF	California Department of Forestry and Fire Protection
CDF	California Department of Forestry and Fire Protection
CEG	Certified Engineering Geologist
CEQA	California Environmental Quality Act
CGS	California Geologic Service
CWHR	California Wildlife Habitat Rating (model)
DEIR	Draft Environmental Impact Report
Department	California Department of Forestry and Fire Protection
DFG	California Department of Fish and Game
DFG	California Department of Fish and Game
DFMP	Draft Forest Management Plan
ECP	Erosion control Plan
EEZ	Equipment Exclusion Zone
EIR	Environmental Impact Report
ELZ	Equipment Limitation Zone
FEMAT	Federal Ecosystem Management Assessment Team
FPR	California Forest Practice Rules
HCP	Habitat Conservation Plan
GWDR	General Wastewater Discharge Requirement
IWM	Integrated Weed Management
JDSF	Jackson Demonstration State Forest
JDSFMP	Jackson Demonstration State Forest Management Plan
LTSY	Long-term Sustained Yield
LWD	Large woody debris
MAMU	Marbled murrelet
MCAQMD	Mendocino County Air Quality Management District
MMBF	Million board feet
MNSO	Northern Spotted Owl
MSP	Maximum Sustained production
NCRWQCB	North Coast Regional Water quality Control Board
NMFS	National Marine Fisheries Service
NOAA	National Oceanic & Atmospheric Administration
NOGO	Northern Goshawk
NOx	Nitrogen oxides
OFSZ	Older Forest Structure Zone
OHP	Office Historical Preservation
OHV	Off-highway vehicle

**RECIRCUALTED DRAFT ENVIRONMENTAL IMPACT REPORT
FOR PROPOSED JDSF MANAGEMENT PLAN ALTERNATIVE G**

PM10	Particulate matter less than 10 microns in diameter
PRC	Public Resources Code
RDEIR	Recirculated Draft Environmental Impact Report
RMZ	Riparian Management Zone
RPF	Registered Professional Forester
RTV	Red Tree Vole
SB	Senate Bill
SCA	Special Concern Areas
SHPO	State Historical Preservation Office
SIP	State Implementation Plan
SO2	Sulfur dioxide
SPCC	Spill Control Countermeasure Plan
STA	Special Treatment Area
THP	Timber Harvesting Plan
TMDL	Total Maximum Daily Load
TPZ	Timber Production Zone
USFWS	United States Fish and Wildlife Service
VOC	Volatile Organic compounds
WDR	Waste Discharge Requirement
WLPZ	Watercourse and Lake Protection Zone

This Page Intentionally Blank